

SEVCIK, Vladimir

Some causes of unsatisfactory performance of slide bearings.
Ropa a hulis 7 no.2:58-61 F '65.

1. State Research Institute of Heat Technology, Prague.

SEVCIK, Vlastimil, inz.

400 kv switching station diagrams. Energetika Cz 12 no.3:113-119
Mr '62.

1. Energoprojekt, Praha.

NOVOTNY, Jiri, MUDr; SEVCIK, Vojmir, MUDr; HAVA, Otokar, MUDr

Advantages and disadvantages of Fromme's paliative resection of
the stomach. Sborn. pathofysiol. trav. vyz. 8 no.4:215-221 Dec 54.

1. Chirurgicka klinika VLA.

(STOMACH, surgery,

resection, Fromme's paliative technic)

SEVCIK, Vojmir (Lt. Col. MD)

Coauthor, with Maj. Gen. Jaroslav LICHTENBERG, MD, Prof. of
article, "Techniques of Suturing Veins."
(VZL , Feb 55)

SO: Sum. 600, 1 Aug. 1955,

SEVCIK, Vojmir, MUDr.

Local application of antibiotics in stercoral peritonitis. Cas.
lek. cesk. 95 no.28-29:778-781 13 July 56.

1. Chirurgická klinika VLA J. Ev. Purkyně v Hradci Králové. Předn.
akademik Jan Bedrna.

(PERITONITIS, therapy,
antibiotics, stercoral peritonitis (Cz))
(ANTIBIOTICS, therapeutic use,
peritonitis, stercoral (Cz))

Sec. 14, V.

EXCERPTA MEDICA Sec.14 Vol.11/4 Radiology Apr 57.

760. ŠEVČÍK V. Chir. Klin. VLA Hradec Králové. *Pozdní poškození střeva rentgenem. Late X-ray damage to the intestine ČAS. LÉK. ČES. 1956, 95/30 (821-824) Ilus. 6

Two cases of late damage to the small intestine by X-ray radiation are described, which caused a fistula and obstruction of the small intestine, in the first case 18 yr. and in the second 11 yr. after X-ray irradiation. The necessity for careful examination is pointed out and the operative removal of the affected parts of the intestine is recommended.

SEVCIK, Vojmir; VYMOJA, Frantisek; KOLCAVA, Miroslav; KROO, Michal

Postoperative staphylococcal enterocolitis. I. Rozhl. chir. 36 no.11:
772-781 Nov 57.

1. Klinika, fakultni chirurgie, ustredni mikrobiologicka laborator,
klinika neurochirurgicka VIA JEvP v Hradni Kralove.

(COLITIS, etiol. & pathogen.

Micrococcus pyogenes in postop. colitis, ther. neomycin &
1-sulfanilyl-2-thiourea-2-amino-p-tolusne-sulfonamide sale(Cz))

(MICROCOCCAL INFECTIONS, ther.

Neomycin & 1-sulfanilyl-2-thiourea-2-amino-p-toluene-
sulfonaumide salt in postop. colitis (Cz))

(NEOMYGIN, ther. use

postop. colitis caused by Micrococcus pyogenes, with 1-
sulfanilyl-2-thiourea-2-amino-p-toluone-sulfonamide salt(Cz))

(SULFONAMIDE MIXTURES, ther. use

1-sulfanilyl-2-thiourea-2-amino-p-sulfonamide salt in postop.
colitis caused by Micrococcus pyogenes, with neomycin (Cz))

SEVCIK, Vojmir; VYMOIA, Frant.

Remarks on the clinical use of neomycin. Cas. lek. cesk. 97 no.4:108-111
24 June 58.

1. Chirurgicka klinika VIA J. Ev. P. v Hradci Kralove, Ustredni
mikrobiologicka laborator VIA J. Ev. P v Hradci Kralove.
(NEOMYCIN, ther. use (Cz))

SHEVCHIK, V. [Ševčík, V.]

Application of certain micromethods in studying new antibiotics
[with summary in English]. Mikrobiologiya 28 no.1:105-111 Jan-F
'59. (MIRA 12:3)

1. Biologicheskiy institut Chekhoslovatskoj AN, Praga.
(ANTIBIOTICS, determ.
micromethods (Rus))

FIZMLI, Yan [Fiseli, J.], doktor med.; ~~SHCHVCHIK, Vojmir~~ [Ševčík, V.].
kand.med.nauk, doktor med.

Choice of method of anesthesia in fecal peritonitis. Khirurgia
35 no.6:84-88 Je '59. (MIRA 12:8)

1. Iz khirurgicheskoy kliniki (zav. - prof.Yaroslav Prokhaska)
Voyenno-meditsinskoy akademii imeni Kh.Ye.Purkine (Gradets
Kralove, Chekhoslovakiya).

(PERITONITIS, surg.

anesth. method choice in fecal peritonitis
(Rus))

SEVCIK, Vojmir; VMOLA, Frantisek

The effect of oxygen at a positive pressure of two atmospheres on the course of model anaerobic infection. Preliminary communication. J. hyg. epidem. (Praha) 8 no.3:313-317 '64

1. Ostrava City Hospital and Policlinic, Surgical Department ,
and Institute of Epidemiology and Microbiology, Prague.

SEVCIK, J.

"Notes on the rot of stored apples caused by penicillium.", p. 276,
(SBORNÍK, Vol. 24, #3/4, Oct. 1951, Czechoslovakia)

SO: Monthly Lists of East European Accessions, Vol. 2 #8, Library of
Congress, August 1953, Uncl.

SEVCIKOVA, A. (Bratislava, KHES)

Notes on the campagne against infant mortality from hygienical viewpoint. Lek.obzor 3 no.9:516-522 1954.

1. Z KHES, Bratislava.

(VITAL STATISTICS,

inf. mortal. in Czech, hygienical factors in etiol. & prev.)

(HYGIENE,

in etiol. & prev. of inf. mortal.)

SEVČIKOVII, H.

HECKO, I., zápočetný výskumný pracovník; SINTAJ, M.; HLAVATÝ, J.; KUKURA, J.;
LÍPKOVÁ, V.; SEVČIKOVÁ, A.; GRUNT, J.; GAZO, M.; MÜLLER, M.;
VALÁSEK, V.

Prevention of infections in nurseries. Bratisl. lek. listy 34 no.9:
1021-1045 Sept 54.

1. Z Krajskeho detského ústavu národného zdravia v Bratislave,
riaditeľ dr. A. Novák (for Hecko, Sintaj, Hlavatý) 2. Z Hygienického
ústavu LFŠU v Bratislave, prednosta akademik V. Mach, a z Ústavu
hygieny, oblastného ústavu pre Slovenko v Bratislave, riaditeľ doc.
dr. P. Macuch (for Kukura, Lípková, Sevciková, Grunt) 3. Z Ústavu
pre výskum výživy ľudu v Bratislave, prednosta dr. A. Bucko. (for
Gazo, Müller) 4. Z Výskumného ústavu epidemiológie a mikrobiológie
v Bratislave, riaditeľ dr. J. Karolček, z oddelenia pre parazitológiu,
prednosta dr. M. Dziuban.

Spolupracovníci: a) z detskej kliniky: M. Krupská a skupina medikov
(v rámci študentskej tvorivosti), V. Bohnerová, M. Černáček, V. Kováč,
D. Krivosová, M. Licková, t. c. uz doktorí medicíny. Pred začiatkom
výskumnej práce riaditeľ KUNZ dr. A. Novák vykonal inštrukciz medikov:
b) z Hygienicko-epidemiologickej stanice UNV Bratislava M. Zatková
c) z jasiel 1. na Blahovej ulici č. 4.: M. Hlebaková (vedúca sestra),
J. Benedeková, G. Skotnárová, A. Nozková, M. Lukovicová, H. Orisková,
V. Fehrerová; 2. na Feriencikovej ulici č. 6: H. Nemčeková (vedúca
sestra), M. Slobodová, N. Dobrotková, A. Macenauerová, B. Stabelová.

(Continued on next card)

HECKO, I., zapovedny vyskimny pracovník; SINTAJ, M.; HLAVATY, J.; KUKURA, J.;
LIPKOVA, V.; SEVCIKOVA, A.; GRUNT, J.; GAZO, M.; MULLER, M.;
VALASEK, V.

Prevention of infections in nurseries. Bratisl. lek. listy 34 no.9:
1021-1045 Sept 54 (Card 2)

d)z Hygienickeho ustavu LFŠU a z Ustavu hygieny: O.Cikova,
X.Rozholdova, L.Haragova, M.Jurcova, T.Orthova; e)z Ostavu pre
vyskum vyziwy ludu: M.Popik, A.Kohutova, L.Sintajova, M.Krcnava;
P.Ambrova, J.Kollarik, M.Asztalosova.

(COMMUNICABLE DISEASES, in infant and child,
prev. in nurseries)

(INFANTS,
nurseries, prev. of communicable dis.)

Sevcikova, Marcela
Cholesterol content in some foods. *Marcela Sevcikova.*
Vyska 11: 44(1956); Dairy Sci. J. 36: 514. The
av. cholesterol content was: milk 1.5, cream 4.5, and Ger-
vais cheese 53 mg./100 g. K. L. C.

SEVCIKOVA, M.

HEYROVSKY, Ant.; HEYROVSKA, I.; SEVCIKOVA, M.

Cholesterol content in normal foods in Czechoslovakia. Cas.
lek. cesk. 96 no.21:657-658 24 May 57.

1. II. interni klinika Karlovy university v Praze, prednosta
prof. Dr. F. Herles. A.H., Praha 2, U nemocnice 2.

(CHOLESTEROL, determ.

in foods in Czech. (Cz))

(FOOD

cholesterol content in Czech. (Cz))

KULHANEK, M.; SEVCIKOVA, Zdena

Biochemical dehydrogenation of saccharides. IV. Secondard products of biochemical dehydrogenation of D-sorbitol and D-mannitol. Folia microbiol. 7 no.5:288-297 '62.

1. Institute of Pharmacy and Biochemistry, Prague 3.
(SORBITOL) (MANHITOL) (ACETOBACTER)

SEVCOV, I.

Power systems and long-distance electric lines of the great water-power projects of communism; an excerpt from A. Glazunov's lecture.
p. 577.
TECHNICKA PRACA, Bratislava, Vol. 6, no. 10, Oct. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

8(2) PHASE I BOOK EXPLOITATION

SLOV/3057

Ševcov, Ivan, Engineer.

Ochrana proti bleskom (Protection Against Lightning) Bratislava,
Slovenske Vydavateľstvo Technickej Literatúry, 1959. 181 p.
1,700 copies printed.

Reviewer: František Vodanský; Chief Ed.: Pavol Holéczy, Engineer;
Resp. Ed.: Bedrich Formánek, Engineer; Tech. Ed.: Karol Holásek.

PURPOSE: This book is intended for designers, installation and
maintenance workers in lightning-arrester systems, for power
engineers in plants and for those interested in problems
involving lightning.

COVERAGE: The book summarizes the basic phenomena occurring in
the atmosphere. It discusses the formation of storms and their
character. It explains on a general level the effects of
lightning and outlines protection measures. Various installa-
tions for protection against lightning are described in detail
according to types of objects to be protected. Information
is also given on testing and maintenance of these installations.

Card 1/8

X 2 /

HUŽIČKA, M., MU Dr; ŠEVCOVA, M.

Czechoslovakia

Tuberculosis Ward OUNZ -- Sokolov (Tuberkulózní oddělení OUNZ -- Sokolov); Head Physician: M. HUŽIČKA, MU Dr; Public Health and Epidemiology Station OUNZ - Karlovy Vary (HES OUNZ -- Karlovy Vary); Director: R. MIKSL, MU Dr. - (for all)

Prague, Rozhledy v tuberkulóse, No 10, 1962, pp 715-719

"The Presence of Scotochromogenic Mycobacteria in Chronic Pulmonary Disease."

SEVCOVIC, J.; CIK, J.

Preliminary report on the use of potentiated anesthetics for prostatectomy.
Rozhl. chir. 37 no.5:351- May 58.

1. Urolog. odd. KUNZ, Zilina, predn. MUDr. J. Wachsmann.

(PROSTATECTOMY, anesth. & analgesia
potentiated anesth. (Cz))

(HIBERNATION, ARTIFICIAL

prostatectomy with potentiated anesth. (Cz))

SEVCOVIC, J.

TECHNOLOGY

periodicals: KVASNY PRUMYSL Vol.5, no.1, Jan. 1959

SEVCOVIC, J. Future tasks of the fermenting industries. p.1.

Monthly List of East European Accessions (EEAI) LC Vol.8, no.5
May 1959, Unclass.

SEVCOVIC, Jan

The food industry contributes to the improvement of feed supply for agriculture. Prum potravin 14 no.7:337-338 J1 '63.

1. Ministerstvo potravinarskeho prumyslu, Praha.

SEVCOVIC, Jan

History and prospect of concentration in the food industry. Prum
potravin 15 no.3:113-116 Mr '64.

1. Ministry of Food Industry, Prague.

SVO VIC, Jan

Our tasks in 1964. Kvasny prum 10 no.1:1-2 Ja'64.

1. Namestek ministra potravinarskeho prumyslu.

SEVCOVIC, Jan

Processing capacity of the food industry/. Prum potravin 15
no.9. 31-433 S '64.

1. Deputy Minister of the Food Industry, Prague.

SEVCOVIC, Jan

Fulfillment of tasks in the anniversary year 1965. Kvasny
prum 11 no.1:1-2 Ja '65.

1. Deputy Minister of Food Industry, Prague.

SEVOOVIC, Jan

A look at the food industry in the twentieth year after the liberation. Prum potravin 16 no.4:165-166 Ap '65.

1. Deputy Minister of the Food Industry, Prague. Submitted March 5, 1965.

CZECHOSLOVAKIA

KRAJNAK, V., MUDr.; SEVCOVICOVA, B.

Contagious Section, OUNZ (Infectious (oddelenie OUNZ),
Martin - (for both; Krajnak-Director).

Bratislava, Lekarsky obzor, No 10, October 1965,
pp 593-597.

"The clinical picture of bacillary dysentery caused
by shigella sonnei in children and adults."

SEVCSIK, EVA

Gyuruelemzes(szerkezeti csoportelemzes); irodalmi összefoglalás.

Veszprem, Hungary, Magyar Asvanyolaj es Foldgaz Kiserleti Intezet.
1952, 46 p.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

SEVDIC MILANKO

Sevdić, Milenko. Le triangle et quadrilatère associés dans la géométrie de Lobachevski. Hrvatsko Prirodoslovno Društvo. Glasnik Mat.-Fiz. Astr. Ser. II, 2, 11-17 (1947). (Croatian. French summary)
 Bolyai [Appendix Scientiam Spatii Absolute Veram Exhibens, new ed., Budapest, 1907, § 34] proposed the following construction for a line through a given point A parallel to a given line ED . Draw AE perpendicular to ED , then AB perpendicular to AE , then DB perpendicular to AB , and take C on BD in such a position that $AC = ED$; then AC is parallel to ED , as desired. The author proves that the acute angle D of the trirectangle $ABDE$ is equal to the angle of parallelism for the distance BC .
 H. S. M. Coxeter (New York, N. Y.).

Source: Mathematical Reviews,

Vol

10 No.

SEVDIC, M.

SEVDIC, M.

Yugoslavia (430)

Science

Aleksei Nikolaevich Krylov, his life and work.

p. 119. Glasnik Matematicko-Fizicki i Astronomski,
Vol. 2, no. 3, 1947.

East European Accessions List, Library of Congress,
Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.

SEVEC, Ivan

Quality of brewing barley varieties according to variety tests. Kvasny prum 9 no.7:162-164 JI '63.

1. Vyvojove pracovisko Slovenskych sladovní, n.p., Trnava.

SEVEC, K.

COUNTRY	: CZECHOSLOVAKIA	R
DISSEMINATION	: Diseases of Farm Animals. Diseases Caused by Bacteria and Parasites	
REF. NO.	: MPRiol., No. 13, 1958, No. 59734	
AUTHOR	: Koppel, Z.; Rosival, F.; <u>Sevec, K.</u>	
YR.	: -	
TITLE	: Experience in the Parenteral Administration of Chloramphenicol in Pasteurellosis of Swine	
ORIG. NO.	: Veterin. casop., 1957, 6, No 6, 373-378	
ABSTRACT	: A good therapeutic effect of the aqueous suspension of chloramphenicol, which was administered in a dose of 0.03 g./kg. to 72 piglets, is reported.	

Card: 1/1

SEVENLA, C., WOLF, I.

"Intradermal nodule type blockade."p. 258. (CASOPIS LEAKAMU CESKYCH, Vol. 92, #10, Mar. 1953, Czechoslovakia)

East European Vol. 2, #8
SO: Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

CZECHOSLOVAKIA / Human and Animal Physiology. Internal T
Secretion. Sexual Glands.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102113.

Author : Sevela, Milan; Marsalek, Jan; Talas, Miroslav.

Inst : Not given.

Title : The Excretion of Gonadotropins After Dilatation
of the Cervix Uteri in Women Suffering from Amenor-
rhea.

Orig Pub: Ceskosl. gynecol., 1957, 22, No 5, 352-354

Abstract: In women with amenorrhea, the dilatation of cervix
uteri induced an increase or decrease of the ex-
cretion of gonadotropins (G). In women who reacted
with a decrease of G excretion, menstruation occur-
red after 3-12 days, while in those in whom the G
excretion increased, amenorrhea persisted.

Card 1/1

SEVELA, M

NEVRIA, F.; SEVELA, M.

Induction of labor in postmature pregnancy. Cas. gyn. 23[37] no.4:
317-318 June 58.

1. Por. gyn. klin. PU v Olomouci, prednosta prof. Dr. J. Marsalek.
F. N., por. gyn. klin. PU v Olomouci,

(PREGNANCY,

prolonged, induction of labor (Cz))

(LABOR, INDUCED

in prolonged pregn. (Cz))

SEVELA, M.; SKACEL, K.

"Oxytocinasis during pregnancy"

Ceskoslovenska Fysiologie. Praha, Czechoslovakia. Vol. 8, no. 1, Jan 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclas

~~NEVRLA, Frantisek; SEVELA, Milan~~

Cholinesterase in pregnancy and in labor. Cesk.gyn.25[39] no.8:
616-619 0'60.

1. Gyn.por.klin. v Olomouci, prednosta prof. MUDr. Jan Marsalek.
(CHOLINESTERASE blood)
(PREGNANCY blood)
(LABOR blood)

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
CA 7 Triantobenzene and nitramine as sensitive reagents for detecting SO_3^{2-}, S^{2-} and CN^-. Colorimetry of SO_3^{2-}, S^{2-} and CN^-. Prantidek Čuta and Miroslav Ševc. <i>Chem. Listy</i> 37, 1-5, 23-7 (1943); <i>Chem. Zvesti.</i> 1943, 1, 2617-18. Some universal indicators contain trinitrobenzene (I) and are useless when SO_3^{2-}, S^{2-} or CN^- is present. Nitramine (phenylmethylnitramine) (II) as an indicator has properties very similar to those of I and can also be used as indicator for detg. the above 3 anions. 1% solns. of I and II in MeOH are used and with II some saccharose is added as stabilizer. In solns. of pH 7-9, a red color is obtained with SO_3^{2-}, a reddish brown soon turning to yellow with S^{2-} and a yellow to reddish violet color (according to the concn.) with CN^-. The colors are sensitive to pH change and at pH 6-8 only S^{2-} reacts. The reactions can be used on a spot plate, but in 100-ml. portions, sepn. can be effected with AmOH; the sulfite compd. cannot be shaken out but the others can. Complete directions are given for making tests when more than one reacting compd. is present. W. F. Hall																			
ASR-51A METALLURGICAL LITERATURE CLASSIFICATION																			
SOCIETY SYMBOLS										SOCIETY SYMBOLS									
SOCIETY SYMBOLS										SOCIETY SYMBOLS									

CA

28

An attempt to estimate the activity of calcium ions in the beet sugar juices. Prantšek Čata and Miroslav Sevela. *Chem. Listy* 38, 194-200 (1944). — The activity of Ca^{++} in sucrose solns., sugar juices, and molasses contg. 15% of sucrose was estd. by means of Harnapp's electrode (C.A. 33, 21637) ($\text{Hg}|\text{Hg}_2(\text{COO})_2|\text{Ca}(\text{COO})_2|\text{Ca}^{++}$). The activity of Ca ions decreases in the series: sucrose soln. > H_2O > light juice > heavy juice > molasses. The juices act as Ca regulators, their pH being important. The substance responsible for lowering the activity of Ca ions was not discovered. Milos Hudlicky

Br. Abs.

2616. [Use of] trinitrobenzene and nitramine as sensitive reagents for detection, and colorimetric estimation, of sulphites, sulphides, and cyanides. F. Čáta and M. Ševela (Coll. Trav. chim. Tehseol., 1943, 13, 267-298 [in English]). At pH 8.1, 1,3,5-trinitrobenzene and methylolnitramine give, in each case, a sensitive

colour test for SO_3^{2-} (reddish), S^{2-} (brownish-yellow, later turning to yellow), and CN^- (yellowish, becoming violet at higher concn. of cyanide). The reagents are used as 1% solutions in methanol. In 0.1N $\text{NH}_4\text{-acetic acid}$ buffers, photometric determinations give the min. dilution limits (ca. detection at: SO_3^{2-} , 1 in 400,000; S^{2-} , 1 in 70,000; CN^- , 1 in 40,000) with trinitrobenzene and higher dilutions with nitramine. Spot tests are less sensitive. The substance produced with CN^- can be extracted with aq. NH_3 to form a purple solution. This enables the components of the binary mixtures $\text{CN}^-/\text{SO}_3^{2-}$ and $\text{CN}^-/\text{S}^{2-}$ to be detected. The substance formed by SO_3^{2-} remains in the aq. layer, but that formed by S^{2-} changes to a yellow colour after 5-10 min. and can then be extracted. For separation it is therefore important to carry out extraction immediately after addition of the reagent to $\text{CN}^-/\text{S}^{2-}$ mixtures. Detection of the components of $\text{SO}_3^{2-}/\text{S}^{2-}$ mixtures is done by extraction with aq. NH_3 15 min. after addition of the reagent. A suspected ternary mixture is shaken with Sb_2O_3 (5 g. to 10 ml. of solution) for 5-8 min., filtered, treated with the reagent, and immediately extracted 5 times with amyl alcohol. Presence of CN^- is shown by an orange colour in the alcohol, SO_3^{2-} by a red-violet colour in the aq. layer, and S^{2-} by a yellow colour on the Sb_2O_3 . Zn, Cd, Hg, Ag, and Cu^{2+} interfere. The reagents can also be used for colorimetric determination of SO_3^{2-} , S^{2-} , and CN^- provided the method is carried out rapidly and a photoelectric colorimeter or a Dufloh photometer is used. Accuracy is about $\pm 2\%$ for SO_3^{2-} and CN^- , and about $\pm 5\%$ for S^{2-} . J. J. KIRKING.

SEVELA, M.; TALAFANT, E.

Effect of alloxan on liver phosphorylase. Biol. listy, Praha 32 no.3:
213-216 Dec 51. (CIML 21:5)

1. Of the Institute of Medical Chemistry (Head--Prof. O. Wagner, M.D.)
of Masaryk University, Brno.

General "1"

CA

Effect of alloxan on the activity of purified muscle phosphorylase. Edmund Talafant and Miroslav Necla (Masaryk Univ., Brno, Czech.). *Chem. Listy* 48:182-5 (1952).—Enzymic processes effected *in vitro* by purified muscle phosphorylase in the presence of added 0.015 M cysteine are suppressed by 0.01 M alloxan. Activation with cysteine and inhibition with alloxan is greater with more highly purified samples of phosphorylase. Alloxan (0.01 M) does not suppress the effect of the phosphorylase activated by genuine protein of blood serum in a diln. of 1:50. A decrease in the no. of cysteine SH groups caused by alloxan was noted by amperometric argentometric titration. No such decrease in SH groups was found with blood serum. M. Hudlický

ŠEVELA M., SCHREIBER B. and ŠEVELOVÁ D.

Zust. pro l^ék. chem. a II. unit. klin. MU v. Brně. *Přispěvek k určování clearance
PAH. Determination of PAH clearance LEK. LISTY 1954, 9/2 (35-37) Graphs 2 Tables 3

The method for determination of PAH with dimethyl-~~p~~-aminobenzaldehyde according
to C. Brun is described with some minor modifications. This method is compared
with the usual Bratton-Marshall method in clinical cases. No significant
differences in results are found. Heyrovsky - Prague

SO: ^CEXERPTA MEDICA, Section II Vol. 7 No. 11

ŠEVELA, MIROSLAV.

Remarks concerning proteinurias studied by electrophoresis. Miroslav Ševela (Ústav lékařskou chem., Brno, Czech.). *Časopis Lékařů Českých* 93, 620-0(1954).-- Urine and serum proteins were investigated in 37 proteinurias by paper electrophoresis; 0.01 cc. serum (dild. with water 1:1) and 0.08 cc. urine were applied for every run. Proteins were concd. by Me₂CO pptn. if the urine contained less than 0.3% protein. Albumins prevailed in urine in cases of benign kidney lesions. In two cases of amyloidosis considerable amounts of α_2 - and γ -globulins (together with albumins and β -globulins) were found in the urine just before death. In one case of γ plasmocytoma, α_2 -globulins formed the main protein fraction in urine, in contrast with the scarcity of this fraction in most other cases including those with α_2 hyperglobulinemia. Ivo M. Hais

SEVELA, Miroslav

Determination of procainesterase in blood serum. Scripta med.,
Brno 28 no.1:33-38 1955.

1. Z Ustavu pro kekarskou chemii lek. fak. MU v Brne
Prednosta prof. MUDr. Oktavian Wagner.

(ESTERASES

procainesterases in blood, photometric determ.)

(BLOOD

procainesterases, photometric determ.)

EXCERPTA MEDICA Sec.2 Vol.10/11 Phy.Biochem. Nov 57

SEVELA, M.
4704. ŠEVELA M. Ust. pro Lék. Chem. Lék. Fak. Masarykovy Univ.
Brno. Stanovení transaminasy v krevním seru papírovou elektroforesou.
Determination of transaminase in blood serum by paper
electrophoresis SCR.MED. (Brno) 1956, 29/5 (185-191) Graphs 2

Illus. 1

Glutamic acid produced by transamination was separated from the incubation solution by electrophoresis lasting 4 hr. The quantity of glutamic acid in the spots was determined by ninhydrin method. The method was used with normal and pathological sera.
Wiedermann - Brno

EXCERPTA MEDICA Sec 6 Vol 13/7 Internal Med. July 50

3285. PHOTOMETRIC ESTIMATION OF SERUM TRANSAMINASE. COMPARISON OF THE REITMAN-FRANKEL AND ELECTROPHORETIC METHODS - K fotometrickému stanovení sérových transaminas. (Srovnání metody Reitmanovy-Frankelovy s metodou elektroforetickou) - Sevela M. Úst. pro Lék. Chem., Lék. Fak., Masarykovy Univ., Brno - VNITRNI LÉK. 1958, 4/8 (721-729) Graphs 1 Tables 6

The Reitman-Frankel photometric method (described) is simple, quick and very suitable for routine determinations of SGOT and SGPT. Problems such as the dilution of highly active sera, standards and calibration curves, incubation period and stability of the measured hydrazone colour are discussed. The results of this photometric method are in good agreement with those of the electrophoretic method. (II, 6)

POJER Jaroslaw, NIGER, Edgar, SEVELLA, Mirosław, OLEJNIK, Udalryk

Experiments on serum transaminase activity in heart diseases.
Polskie arch.med. wewn. 28 no.2:193-199 1958

1. Z III Kliniki Chorob Wewnętrznych Uniwersytetu im. Masaryka
w Brnie. Kierownik: prof. dr med. J. Pojer z Zakładu Chemii
Lekarskiej U.M. Kierownik: prof. dr med. Wagner oraz z II Kliniki
Chirurgicznej U.M. Kierownik: prof. dr med. Favrtil. Adres autora:
J.P., III. Vnitřní Klinika Masarykovy University, Brno, Czechoslovakia.

(HEART DISEASE, metabolism

serum transaminase activity, determ. (Pol))

(TRANSMINASES, in blood

in various heart dis., determ. (Pol))

EXCERPTA MEDICA Sec 18 Vol. 2/10 Cardio. Diseases Oct. 58

2728. *The possibilities of simultaneous determination of serum glutamic-oxalacetic and glutamic-pyruvic transaminases* O možnosti současného stanovení sérových transaminas kyseliny glutamové-oxalocetové a glutamové pyrohroznové. SEVELA M. Úst. pro Lék. Chem., Lék. Fak., Masarykovy Univ., Brno *Cas. Lék. ces.* 1958, 97/6-7 (183—186) Tables 1 Illus. 2

Hyaluronidase activity in vivo in rabbits is followed by an intradermal penetration test after sustained administration of ACTH, cortisone and phenylquinine. After ACTH there is an inhibition for 3 days. A persistent inhibition was found with cortisone and phenylquinine. The most potent inhibition is by cortisone.

Heydemann - Amsterdam (XVIII, 6*)

SEVEIA, M.

Transaminase activity of the protein fractions of blood serum. Cas.
lek. cesk. 97 no.40:1255-1257 3 Oct 58.

1. Ustav pro lekářskou chemii lek. fak. MU V Brně prednosta prof.
MUDr. Oktavian Wagner

(TRANSAMINASES, in blood

glutamic oxalacetic transaminase activity in serum globulin
fractions (Pol))

(SERUM GLOBULIN

determ. of glutamic oxalacetic transaminase activity (Pol))

EXCERPTA MEDICA Sec 2 Vol 12/6 Physiology June 59

2141. DETERMINATION OF TRANSAMINASE ACTIVITY OF SERUM PROTEIN
FRACTIONS SEPARATED BY PAPER ELECTROPHORESIS - Sevela M.
Dept. of Med. Chem., Masaryk Univ., Brno - NATURE (Lond.) 1958, 181/4613
(915-916) Tables 1

In 6 pathological sera with high transaminase titre the glutamic-oxalacetic acid
transaminase activity was mainly associated with α_2 -globulins, and the glutamic
pyruvic acid transaminase activity with β -globulins. Wiedermann - Brno

SEVELA, Miroslav; TOVARSK, Josef

Method for the estimation of lactic dehydrogenase. Cas. lek. cesk. 98
no.27:844-848 3 July 59.

1. Ustav pro lekářskou chemii lékařské fakulty v Brně, přednosta prof.
dr. O. Wagner, III. interní klinika lékařské fakulty v Brně, přednosta prof.
dr. et PhDr. J. Pojer. M.S., Brno, Komenského nám. 2.
(DEHYDROGENASES, determ.
lactic dehydrogenase estimation method (Cz))

SEVELA, Miroslav; TOVAREK, Josef

A photometric method for the determination of malic acid dehydrogenase in body fluids. Cas.lek.cesk. 99 no.47:1487-1493 18 N '60.

1. Ustav pro lekářskou chemii lek. fak. v Brně, přednosta prof. MUDr. O. Wagner, III. interní klinika lékařské fakulty v Brně, přednosta prof. MUDr. et PhDr. J. Pojer.
(DEHYDROGENASES chem)

SEVELA, M.; TOVAREK, J.

Use of a simple test for investigating the isoenzymes of lactate dehydrogenase (LDH1 and LDH5) in the blood serum. Cas.lek.cesk. 103 no.15:419-422 10 Ap'64

1. Katedra lekarske chemie lekarske fakulty UJEP v Brne (prednosta: prof.MUDr. O.Wagner) a III.interne klinika lekarske fakulty UJEP v Brne (prednosta: prof. MUDr et PhDr. J.Pojer).

*

SEVELA, Pavol

Tenth anniversary of the Nitra brewery. Kvasny prum 9 no.8:
199-200 Ag '63.

1. Zapadoslovenske pivovary, n.p., zavod Nitra.

CZECHOSLOVAKIA

SEVELA, Tomas, MVDr

Hustopece near Brno

Brno, Veterinarstvi, No 11, November 1966, pp 525-

"Cor villosum."

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548210017-2"

Mechanism for hoisting boxes. Mas. ind. SSSR 26 no. 6:53 '55.
(Hoisting machinery) (MLRA 9:2)

ASURKOV, J.D.; SEVELJEV, A.S.

Tasks of scientific work in organization of public health, Czech,
zdravot. 5 no.7:383-387 July 57.

1. Semashkov ustav organizace zdravotnictvi a dejin lekarstvi v
Moskve.

(PUBLIC HEALTH,
organiz. (Cs))

✓ SEVELOVÁ D., ŠEVELA M. and SCHREIER B.

Zust. pro léc. čim. a II. míš. křm. ř. Dmá. *Příspěvek k určování clearance
PAH. Determination of PAH clearance LEK. LISTY 1954, 9/2 (35-37) Graphs 2 Tables 3

The method for determination of PAH with dimethyl-~~p~~-aminobenzaldehyde according
to C. Brun is described with some minor modifications. This method is compared
with the usual Eratton-Marshall method in clinical cases. No significant
differences in results are found. Heyrovský - Prague

SO: EXCERPTA MEDICA, Section II Vol. 7 No. 11

SEVELOVA, D.

✓ Toxicity of intravenously administered trypsin in rabbits.
J. Polák, B. Schreiber, D. Sevelová, L. Votava, and J.
Rumštuková (Masaryk Univ., Brno, Czech.). *Československá
lékařská* 1, 509-15 (1955).—Slow intravenous administration
of 5-10 mg. trypsin (I) dissolved in 100 ml. physiol. saline
to rabbits (per kg. of body wt.) produced a considerable
mortality caused mainly by blood clotting in heart and
large vessels. There were observed hemorrhages and
necroses in vital organs. The most striking change was a
decrease of fibrinogen (II) practically down to zero. In the
surviving animals the lowered values of II and of the con-
glutination factors became normal within 24 hrs. Previous ap-
plication of heparin prevented the toxic effects of I and the
decrease of II. L. J. Urbánek

(4)

EXCERPTA MEDICA Sec.6 Vol.12/5 Int. Medicine

May 58

SEVELOVA, D.

2626. PENETRATION OF *para*-AMINOHIPPURIC ACID FROM BLOOD INTO
ASCITES - O pronikání kyseliny p-aminohippurové z krve do ascitu -
Sevelová D., Ševela M., Votava L. and Skálová M. II
Vnitřní klin. Lék. Fak. MU, Brno; Úst. pro Lék. Chem. Lék. Fak. MU,
Brno - VNITŘ. LÉK. 1957, 3/8 (745-748) Graphs 2

Penetration of *para*-aminohippuric acid from blood into ascites, hydrothorax
and oedema fluids after a one stage i.v. application to dogs and people was followed-
up. The results are discussed in the connection with the estimation of distribution
space of the *para*-aminohippuric acid by means of one-stage injection method.

VACEK, Lubor; SEVELOVA, Dagmar

Some biochemical changes in experimental hypertension. Scr. med. fac.
med. Brunensis 35 no.6/7:287-293 '62.

1. Laborator patofysiologie krevního oběhu při II. vnitřní klinice
lékarské fakulty University J.E.Purkyně v Brně. Prednosta: prof.
MUDr. Jirí Polcák.

(HYPERTENSION)
(LIPOPROTEIN LIPASE)

(BLOOD CHEMICAL ANALYSIS)
(LIPOPROTEINS) (HYPERTENSION RENAL)

CZECHOSLOVAKIA

SEVELOVA, D.

Laboratory of Pathophysiology of the Circulatory System
of the Second Internal Medicine Clinic (Laborator pato-
fysiologie krevního oběhu při II. vnitřní klinice),
Brno

Prague, Vnitřní lékařství, No 12, 1963, pp 1196-1200

"Enzymes in the Kidneys."

SEVEMOV, A.D.; DATSKO, V.G.

Modification of the micro method for determining organic carbon
in natural waters by combustion in fused saltpeter. Gidrokhim.
mat. 29:238-241 '59. (MIRA 13:5)

1. Gidrokhimicheskiy institut Akademii nauk SSSR, Novocherkassk.
(Water--Analysis) (Carbon)

SEVEMY, A. B.

"The Processes in Active Regions of the Sun and Electromagnetics," a paper read at the Symposium on Electromagnetic Phenomena in Cosmical Physics, Stockholm, 27-31 August 1956.

Astrophysical Observatory, Simeas, Crimea

SEVENARD, K.V.

The Gorkiy Hydroelectric Power Station is put into full operation.
Gidr. stroi. 26 no.3:3-4 Mr '57. (MIRA 10:4)

1. Glavnyy inzhener Gor'kovgesstroya.
(Gorkiy hydroelectric power station)

SEVENSON, A.N., kand. tekhn. nauk

Spectrum compression using a signal transformation technique. Vop.
pered. inform. 3:47-59 '64. (MIRA 18:1)

SEVENTS, Garegin

[Vietnamese spring; travel sketches] V'etnamskaia vesna;
putevye ocherki. Moskva, Sovetskii pisatel', 1963. 141 p.
(MIRA 19:1)

SEVER, Bela

Development of the viticulture in the region of Prekmurje. Geogr
vest 33:61-93 '61.

SEVER, O.

HUNG:

✓ 2599. Refining of the refractory clay from Felsőpetény. — J. SEVER (Bányász. Lapok, 86, 320, 1953; abstracted in *J. Amer. ceram. Soc. (Amer.)*, 38, 100, 1955). The clay contains finely distributed pyrite which is best removed in a hydrocyclone. The purified clay melts at cone 33.

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mh.

MT

FEH

HUNGARY / Chemical Technology, Chemical Products and H
Their Application, Part 2. - Ceramics, Glass,
Binders, Concretes. - Ceramics.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61662.

Author : Jozsef Sever.

Inst : Not given.

Title : Laboratory Experiments of Decreasing Iron Con-
tent in Sekeshfehervar Aplites.

Orig Pub: Epitoanyag, 1957, 9, No 5, 262 - 263.

Abstract: Aplites (I) are used instead of felspar in the
Hungarian ceramic industry for manufacturing
porcelain body. I from the quarry at Sekes-
fehervar contains Fe oxide in an amount greater
than the admissible. Experiments of decreas-
ing the Fe content by classification, wet dress-

Card 1/2

LOJZE SEVER

YUGOSLAVIA/Physical Chemistry. Kinetics. Combustion.
Explosions. Topochemistry. Catalysis.

B

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73317.

Author : Bogomir Dobovishek, Lojze Sever.

Inst :

Title : To the Question of Kinetics of Solid Substance
Combustion.

Orig Pub: Rud.-metal. zb., 1957, No 3, 253-258.

Abstract: The rate of the summary combustion reaction of various solid substances comprising metallurgical coke and semicoke was studied by differential measurements of the temperature. The authors find the rate of the combustion reaction by successive determination of the area between the curve representing the dependence of the difference between

Card : 1/2

IONESCU, Dimitrie D., ing. (Bucuresti); SEVER, Muja, ing. (Bucuresti)

"Life in the universe" by Aleksandr Ivanovich Oparin and Vasilii Grigor'yevich Fesenkov. Reviewed by Dimitrie D. Ionescu and Muja Sever. Natura Biologie 13 no.6:78 N-D '61.

IONESCU, Dimitrie D., ing. (Bucuresti); SEVER, Muja, ing. (Bucuresti)

"Forest and ornamental trees and shrubs cultivated in Rumania"
by I. Dimitriu-Tataranu and others. Reviewed by Dimitrie D.
Ionescu and Muja Sever. Natura Biologie 13 no.6:78-79 N-D '61.

*

SEVER, N.

SURNAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees: [not given]

Affiliation: Institute of Veterinary Medicine of the People's Republic
of Serbia (Veterinarski institut NRS) Belgrade

Source: Belgrade, Veterinarski glasnik, No 5, 1961, pp 377-382.

Data: "Administration of "Frantin" in the Prevention of Nematodirosis."

Authors:

WUJIC, B. ✓

PETROVIC, K. ✓

SEVER, N.

SEVER 16

Bellegardo, Vincentina A. J. Vol 16, No 10, 1931 (cont'd)

- [illegible]

2/3

SEVER, P.

A compass over the steering wheel.

P. 1. (CESKOSLOVENSKY VOJAK.) (Praha, Czechoslovakia) Vol. 7, No. 2, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

SEVER, P.

Five in paradise. p. 23.

CESKOSLOVENSKY VOJAK. (Ministerstvo narodni obrany. Hlavni politicka sprava)
Praha, Czechoslovakia. Vol. 8, no. 13, June 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 10, Oct. 1959. Uncl.

SEVERA, A.

The fibroscope.

P. 28 (Jemna Mechanika a Optike. Vol. 2, no. 1, Feb. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2,
February 1958

SEVERA, Jan

Cast-iron sectional heating boilers made by the national enterprise
Zelezarny a dratovny in Bohumin. Tech praca 14 no.2:154-157 F '62.

1. Zelezarny a dratovny, n.p., Bohumin.

100-12-104, 100-107,
CZECHOSLOVAKIA/Chemical Technology - Chemical Products and H-25
Their Application, Part 3. - Fats and Oils, Waxes,
Soaps, Detergents, Flotation Agents.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 48307

Author : Jiri Ruzicka, Josef Severa

Inst : -

Title : Glycerin Losses at Its Production.

Orig Pub : Prumysl potravin, 1957, 8, No 11, 586-590

Abstract : The possible causes of glycerin losses and the measures
for their elimination or decrease are discussed.
Bibliography with 5 titles.

Card 1/1

5

PECAK, Vaclav; SEVERA, Zdenek

A quick method of determination of streptomycin in fermented media. Cesk. farm. 3 no.9:305-307 Nov 54.

1. Z Vyzkumneho ustavu antibiotik, Roztoky u Prahy
(STREPTOMYCIN, determination
fermented media, quick method)

Zdenek Severa

CZECH

1/Industrial separation of substances by ion exchangers

Zdenek Severa, Václav Pecák, and Josef Hoffmann. *Chem. Průmysl* 4(29), 233-9 (1954).—The design, operation, and process control are discussed of the ion exchanger in a pilot-plant installation in an antibiotic plant in Czechoslovakia. The sepn. of basic substances from dil. solns. by means of a cation exchanger is described.

L. A. Helwich

②

CZECH

✓Industrial separation of substances by ion exchangers.

Zeleněk Severa, Václav Pešek, and Josef Vrátný. ~~Czech. J. Chem. Eng.~~ ~~1954~~ 23-4 (1954).

The design, operation, and process control are discussed of the ion exchanger in a pilot-plant installation in an antibiotic plant in Czechoslovakia. The sepu. of basic substances from dil. solns. by means of a cation exchanger is described.

L. A. Helwich

(2) AB
gwl

Severa, Zdenek

✓ Isolation and purification of basic antibiotics. Josef Hoffman, Zdenek Severa, and Miroslav Hefmanský. Czech. 84,708, Nov. 1, 1955. Fermentation medium (100 l.) contg. 232 streptomycin (I) units/ml. was filtered. The filtrate was stirred 30 min. with 1.5 kg. powd. C and filtered by suction. The cake was extd. 5 times with 4 l. of 2% HCl. The combined filtrates were adjusted with solid NaHCO₃ to pH 6.5 and filtered to yield a soln. contg. 590 I units/ml. This soln. was successively shaken with 4 l. Bu acetate (2 + 1 + 1) contg. 500 g. Na dibutylphthalenesulfonate divided in the same ratio. The combined exts. were treated with 100 ml. of 50% soln. of pyridine sulfate in MeOH, stirred vigorously 10 min., and after standing for 20 min., the lower phase contg. MeOH soln. of I sulfate was sepd. The extn. was repeated 4 times yielding at the end 411 ml. of thick yellowish liquid which was poured into 4 l. MeOH. The pptd. I weighed 23.8 g. and assayed 460 units/mg. Reptn. from water with MeOH gave 16 g. white product which assayed 610 units/mg.

L. J. Urbánek

3

SEVERA, Zdenek

7/12/54
✓ Removal of hypotensive substances from streptomycin solution. Josef Hoffman, Jiřina Čapková, Miroslav Helmanický, and Zdeněk Severa. Czech. 84,709, Nov. 1, 1955. Crude streptomycin sulfate (10 g., 475 units per mg.) with a content of hypotensive substances corresponding to 1700 γ histamine (I) was dissolved in 50 ml. water. After adding 3.3 g. powd. silica gel (II) the pH of the mixt. was adjusted to 7.5 with 10% NaOH and stirred 1 hr. It was filtered off and washed with water. The combined filtrates were adjusted to pH 6.0 with dil. H₂SO₄ and lyophilized. The product contained 0.2 γ I activity per 100 mg.

L. J. Urbánek

4

PECAK, Vaclav; SEVERA, Zdenek

Isolation of cephalin from brain and spinal cord. Cas. lek.
cesk. 44 no.34-35:960-962 26 Aug 55.

1. Vyzkumny ustav antibiotik, Roztoky u Prahy.

(PHOSPHOLIPIDS

cephalin, isolation from brain & spinal cord.)

(BRAIN

cephalin isolation.)

(SPINAL CORD

cephalin isolation.)

SEVERA, ZDENEK

2
The isolation of cephalin from brain and medulla. Václav
Pecák and Zdeněk Severa (Výzkumný Ústav Antibiotik,
Rožtoky u Prahy, Czech.). *Časopis Lékařů Českých* 94,
960-2(1955).—Thoroughly ground mince is dried in a
vacuum drying-box or in warm air at max. 60° for approx.
24 hrs. and reground. The dry material is Soxhlet-extd.
with Et₂O contg. 1-1.5% water (2-2.5 l. per kg. dry ma-
terial). Et₂O is removed and the dry ext. is Soxhlet-extd.

with Me₂CO (5 l. per kg. of ext.) for 10-15 hrs. The ext. is
evapd. and boiled for 2-3 hrs. in 5% aq. NaOH (5 l. per kg.
of ext.). Cholesterol is washed with H₂O on a Büchner
funnel and twice recrystd. from boiling MeOH (1 l. per 100
g.), m. 147-8°. The phospholipide-rich Me₂CO-extd.
material is dissolved in 95% Et₂O (500 ml. per 100 g.),
centrifuged, if necessary, and pptd. with 4 vols. of Me₂CO.
Water emulsion of the ppt. is repeatedly pptd. with equal
vols. of Me₂CO. The crude lecithin-cephalin mixt. is dis-
solved in 95% Et₂O and pptd. with 4 vols. of 96% EtOH.
Cephalin is repptd. and dehydrated with anhyd. Me₂CO,
m. 174-5°. Lecithin can be obtained from the EtOH soln.
by pptg. with 5 vols. of Me₂CO. The residues after the
first Et₂O extn. of brain or medulla are extd. with 92%
EtOH, phosphatide impurities are removed by heating with
Ba(OH)₂ soln., and the cerebroside fraction is fractionated
by crystn. according to Loening and Thierfelder (cf. *ibid.*
74, 282). I. M. Hais

PROCHAZKA, Z.; SEVERA, Z.

On the bound form of ascorbic acid. XIV. A new method of isolation of ascorbigen and iberin from Savoy cabbage. Coll Cz Chem 25 no.4: 1100-1103 Ap '60. (EEAI 9:12)

1. Department of Natural Products, Institute of Chemistry, Czechoslovak Academy of Science, Prague and Antibiotics Research Institute, Roztoky.

(Ascorbic acid) (Thiourea) (Cabbage) (Iberin)

URKS, M.; CHERKES, L.D.; SEVERA, Z.

Improvement in the filtration of culture fluid in the production of
antibiotics from Actinomyces. Med.prom. 14 no.11:21-27 N '60.

(MIRA 13:11)

1. Nauchno-issledovatel'skiy institut antibiotikov, Chekhoslovatskaya
Sotsialisticheskaya Respublika.

(ANTIBIOTICS)

(ACTINOMYCES)

L 43150-66 EWT(m)/T/EWP(t)/EII/EWP(k) IJP(c) JD/HW

ACC NR: AR6022162 SOURCE CODE: UR/0137/66/000/003/D010/D010

AUTHOR: Severdenko, V. P.; Gurskiy, L. I.

ORG: none

TITLE: Structure of the surface layer in gradual multistage deformation

SOURCE: Ref. zh. Metallurgiya, Abs. 3D69

REF SOURCE: Sb. Metallovedeniye i term. obrabotka met. Minsk, Nauka i tekhnika, 1965, 124-134

TOPIC TAGS: plastic deformation, surface property, multistage deformation, rolling

ABSTRACT: On the basis of an experiment, the authors conclude that in multipass rolling with gradual reduction, the existence of a surface amorphous layer can be explained not only by the extremely fine fragmentation of the crystals in this layer

Card 1/2

UDC: 621.771.001

L 43150-66

ACC NR: AR6022162

but also by the introduction of impurities. A very fine surface layer in fractionated rolling should be interpreted as a finely dispersed or amorphous layer. N. Yudina.
[Translation of abstract] [KP]

SUB CODE: 20/ SUBM DATE: none

Card 2/2 MLP

L 11320-67 EWP(k)/EWT(m)/EWP(t)/ETI IJP(c) JD/HN
ACC NR: AR6022168 SOURCE CODE: UR/0137/66/000/003/1035/1035

AUTHOR: Severdenko, V. P.; Gurskiy, L. I.; Tochitskiy, E. I.; Chaplanov, A. M. 41

TITLE: Distribution of dislocation density during plastic deformation of metals

SOURCE: Ref. zh. Metallurgiya, Abs. 31237

REF SOURCE: Sb. Metallovedeniye i term. obrabotka met. Minsk, Nauka i tekhnika, 1965, 49-57

TOPIC TAGS: crystal lattice dislocation, plastic deformation, iron property

ABSTRACT: The electron microscope and x-ray analysis were used for determining dislocation density in iron by transillumination after cold plastic deformation. The deformation conditions used were single-pass rolling and multiple-pass rolling with unit reductions of 1-1.5% to the same total degree of deformation as with the single-pass method. Dislocation density was determined in surface layers of a strip with an original thickness of 12 mm after deformation by 9.7, 13.4, 20.0, 32.4 and 45.3%. A URS-501 diffractometer was used for x-ray analysis. Both the dimensions of coherent scattering regions and microdistortions of the crystal lattice were used in determining dislocation density. It is found that the density of dislocations in the case of multiple-pass deformation is considerably lower and the distribution of the dislocations with respect to the cross section of the strip is more uniform than for the case

Card 1/2

UDC: 548.4;539.3:669.01

L 11320-67

ACC NR: AR6022168

of single-pass rolling. The results confirm the possibility of using the electron microscope and x-ray analysis for a quantitative determination of dislocation density. V. Ivanova. [Translation of abstract]

SUB CODE: 11, 20

Card 2/2 bab

ACC NR: AR5027515

SOURCE CODE: UR/0137/66/000/004/I083/I083

AUTHOR: Severdenko, V. P.; Brekhov, K. B.

TITLE: Redistribution of carbides in high speed steel as a result of hot extrusion

SOURCE: Ref. zh. Metallurgiya, Abs. 4I559

REF SOURCE: Sb. Metallovedeniye i term. obrabotka met. Minsk, Nauka i tekhnika, 1965, 89-92

TOPIC TAGS: high speed steel, tool steel, metal extrusion / R18 steel

TRANSLATION: The dependence between the amount of deformation during hot extrusion and the change in the degree of carbide inhomogeneity in R18 steel was established. Hot extrusion was done at 1150°C with the use of a graphite²⁷oil lubricant. During hot extrusion of R18 steel, the greatest decrease in the number was found in the center of the stock while the lowest was in the surface layers. The carbide number of a processed part could be regulated by the degree of deformation. V. Olenicheva.

SUB CODE: 11,13

UDC: 669.15.018.252.3

Card 1/1

ACC NR: AT6036709

SOURCE CODE: UR/0000/66/000/000/0473/0473

AUTHOR: Severdenko, V. P. (Academician AN BSSR); Tochitskiy, E. I.; Yelin, V. I.

ORG: none

TITLE: Increasing metal strength by reinforcement with microwire

SOURCE: AN BSSR. Fiziko-tekhnicheskiy institut. Plastichnost' i obrabotka metallov davleniyem (Plasticity and metalworking by pressure). Minsk, Nauka i tekhnika, 1966, 293-297

TOPIC TAGS: metal strengthening, dispersion strengthening, dispersion strengthened metal property, metal composite, metal composite property, microwire, nichrome alloy, tin

ABSTRACT: A series of specimens of commercial-grade tin reinforced with nichrome wire 0.1 mm in diameter were subjected to tensile tests. The specimens with wires oriented across the direction of the load had a strength lower than that of pure tin. However, specimens with wires oriented along the direction of the load had a strength 49 to 83% higher than that of pure tin, depending on the number of wires per mm of specimen area. The increase in strength was somewhat higher than the mean strength of nichrome wires and tin matrix. Orig. art. has: 2 tables.

SUB CODE: 11, 13/ SUBM DATE: 08Jul66/ ORIG REF: 002/ ATD PRESS: 5108

Card 1/1

ACC NR: AP/003281

(N)

SOURCE CODE: UR/0250/66/010/012/0941/0944

AUTHOR: Severdenko, V. P. (Academician AN BSSR); Kalachev, M. I.; Ankut, P. P.

ORG: Physicotechnical Institute, AN BSSR (Fiziko-tekhnicheskiy institut AN BSSR)

TITLE: Influence of the rate of deformation on the change in the structure of titanium

SOURCE: AN BSSR. Doklady, v. 10, no. 12, 1966, 941-944

TOPIC TAGS: titanium, tension stress, material deformation, temperature dependence, crystal lattice structure, plastic flow, recrystallization, twinning/ VTI-I titanium

ABSTRACT: This is a continuation of earlier work (Tsvetnyye metally [Nonferrous Metals] no. 6, 1964), where it was established that VTI-I titanium has an anomalous behavior under tension at 600C, indicating variations in the mechanism of deformation as a result of the peculiar crystal structure and properties of the crystal lattice of titanium. To check on the changes occurring in the structure of the metal during plastic flow, the authors carried out a metallographic investigation of titanium, deformed at 600C with different rates of tension. Study of the microstructure of the sample indicates that both hardening and softening recrystallization processes occur in the metal and their net result is to increase the plasticity of the metal. The relative magnitudes of the hardening and softening of the metal depend on the deformation rate. The results also indicate the presence of intense twinning and occurrence of gliding processes in the metal. When the titanium is stretched at a

Card 1/2

ACC NR: AP7003281

rate faster than $4 \times 10^{-2} \text{ min}^{-1}$, the stretching proceeds without anomalies and with a minimum of twinning. Orig. art. has: 2 figures.

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Card 2/2